Rock Island Arsenal Safety and Occupational Health Council

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OSC - On The Line

Briefing Agenda

- Commander's Opening Comments
- Purpose of SOHC
- Changes in Hearing Conservation Program
- Status of RIA Ergonomics Program
- CISP Semi-Annual Review
- RIA Current Safety Performance
- Issues from the Council

Purpose of Safety and Occupational Health Council

- Forum to Evaluate Safety and Occupational Health Program Status
- Review of Safety and Occupational Health Performance
- Forum to Address Major Issues

Changes in Hearing Conservation Program

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Changes for Recording Criteria for Occupational Hearing Loss

OLD CRITERIA

- Recorded in OSHA 200 Log
- STS 25 dB at 2000, 3000 and 4000 Hertz

NEW CRITERIA

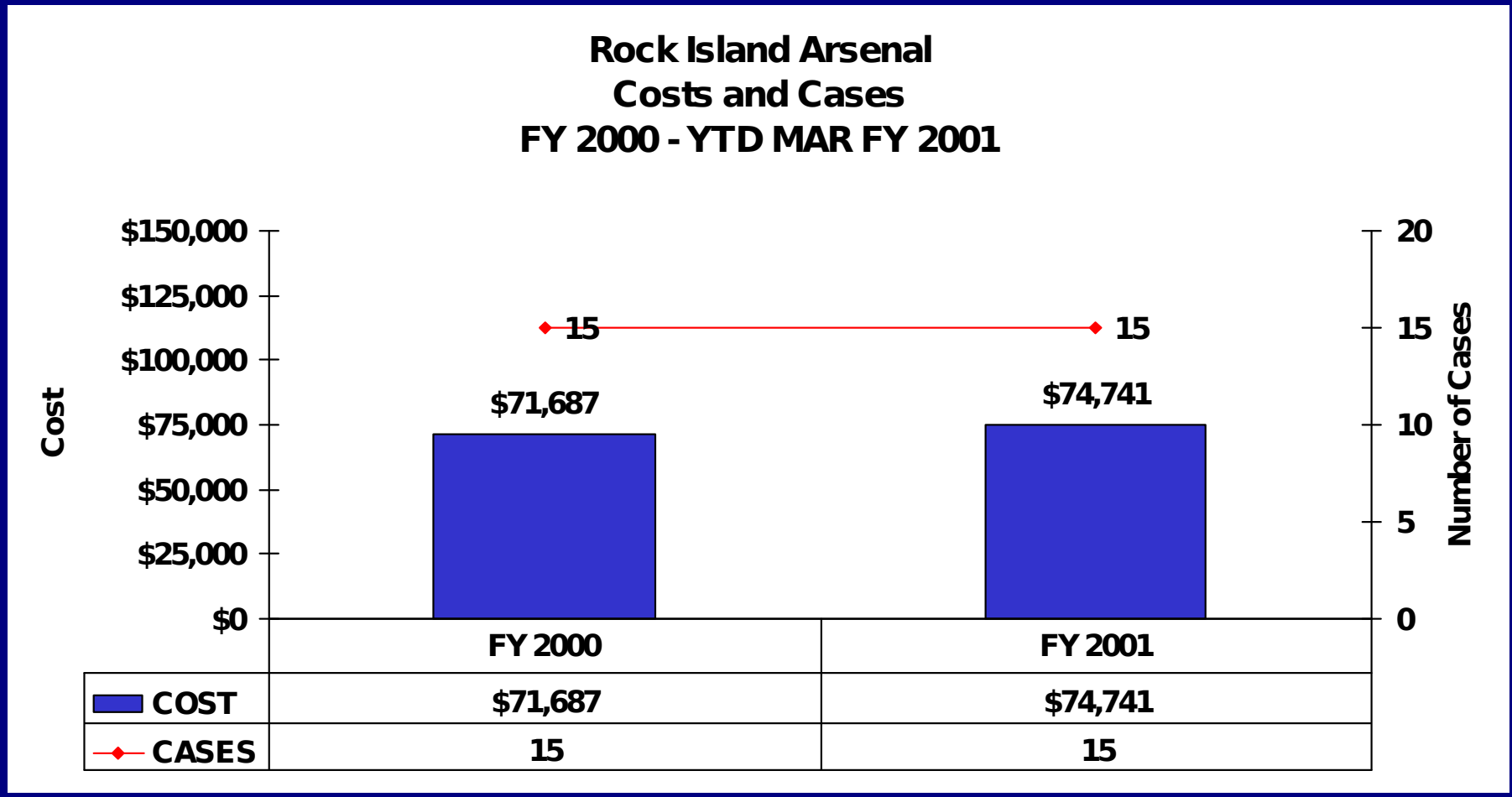
- Recorded in OSHA 300 Log
- STS 10 dB at 2000, 3000 and 4000 Hertz

AMC Data Profile - RIA

- 804 Enrolled in the Hearing Conservation Program
- 70 (8.7%) Potential Hearing Losses at a Projected Cost of $868,773
- 12% is the Average for AMC Installations*

*Based upon 1997 AMC Data

RIA Cost and Cases



Note: FY 2001 Currently Has 2 Cases Pending.

Status of RIA Ergonomics Program

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DoD and Army Regulations and Guidance

- DoD Ergonomics Policy Memorandum, 04 FEB 1997
- DODI 6055.1
- HQDA Letter 40-00-1, 14 July 2000
- AR 40-5
- DA PAM 40-21, 15 MAY 2000
- TG 220

What is the Ergonomics?

- **Ergonomics is the study of human work, which focuses on the physical and mental capabilities and limits of the worker as he or she interacts with tools, equipment, work methods, tasks, and the working environment.**

RIA Ergonomics Team

- Michael Chaplin, SMARI-SF
- Cathy Sonnenberg, MCXM-PMA
- Joline Adams, SMARI-PC-WC
- Charles Massey, SMARI-IC
- James Nelson, AFGE Local 2119
- Lillie Jennings, AFGE Local 2134

RIA Ergonomics Program

- Worksite Analysis
- Hazard Prevention and Control
- Health Care Management
- Education and Training
- Ergonomics Program Evaluation

Costs of Ignoring Ergonomics

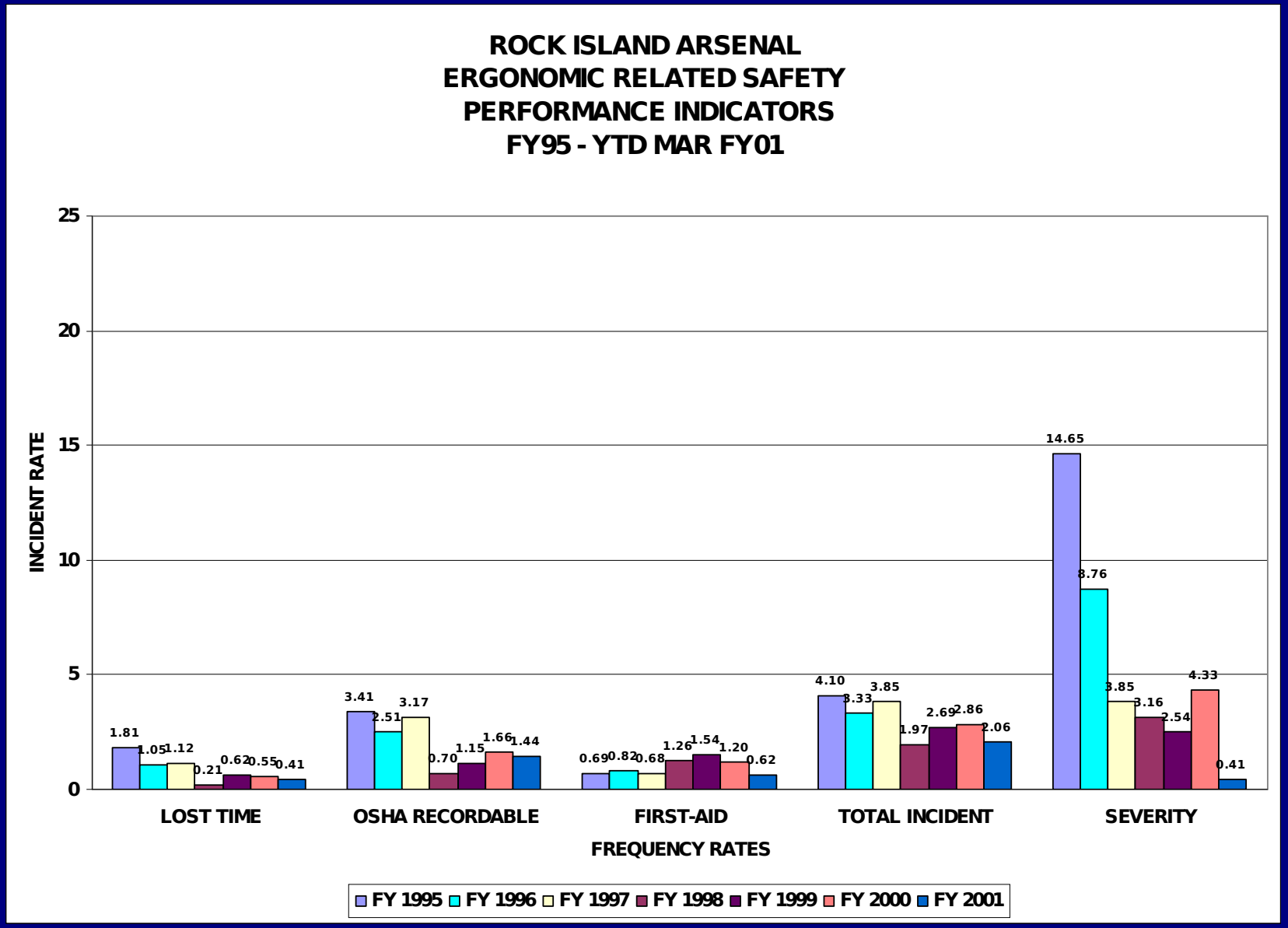
- Injuries, Sprains and Strains
- Increased Probability of Accidents and Errors
- Higher Medical and Material Costs
- Increased Labor Turnover
- Less Production Output
- Low-Quality Work

Benefits of Ergonomics

- **Direct Benefits**
  - Reduced Labor Costs
  - Lower Accident Costs
  - Reduced Worker's Compensation Costs
  - Productivity Gains
- **Indirect Benefits**
  - Quality Improvements
  - Improved Employee Morale

Ergonomic Related Incidents RIA Cases and Frequency Rates YTD MAR FY 2001

CASES	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
LOST TIME	34	18	18	3	8	6	2
OSHA RECORDABLE	64	43	51	10	15	18	7
FIRST-AID	13	14	11	18	20	13	3
TOTAL	77	57	62	28	35	31	10
LOST WORKDAYS	275	150	62	45	33	47	2
HOURS OF EXPOSURE	3,753,449	3,425,361	3,217,248	2,848,611	2,600,009	2,169,852	971,278
FREQUENCY RATES	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
LOST TIME	1.81	1.05	1.12	0.21	0.62	0.55	0.41
OSHA RECORDABLE	3.41	2.51	3.17	0.70	1.15	1.66	1.44
FIRST-AID	0.69	0.82	0.68	1.26	1.54	1.20	0.62
TOTAL INCIDENT	4.10	3.33	3.85	1.97	2.69	2.86	2.06
SEVERITY	14.65	8.76	3.85	3.16	2.54	4.33	0.41


ROCK ISLAND ARSENAL
ERGONOMIC RELATED SAFETY
PERFORMANCE INDICATORS
FY95 - YTD MAR FY01
INCIDENT RATE
25
20
15
10
5
0
1.81
1.05
1.12
0.21
0.62
0.55
0.41
3.41
2.51
3.17
0.70
1.15
1.66
1.44
0.69
0.82
0.68
1.26
1.54
1.20
0.62
4.10
3.33
3.85
1.97
2.69
2.86
2.06
14.65
8.76
3.85
3.16
2.54
4.33
0.41
LOST TIME
OSHA RECORDABLE
FIRST-AID
TOTAL INCIDENT
SEVERITY
FREQUENCY RATES
FY 1995
FY 1996
FY 1997
FY 1998
FY 1999
FY 2000
FY 2001

Semi-Annual CISP Review

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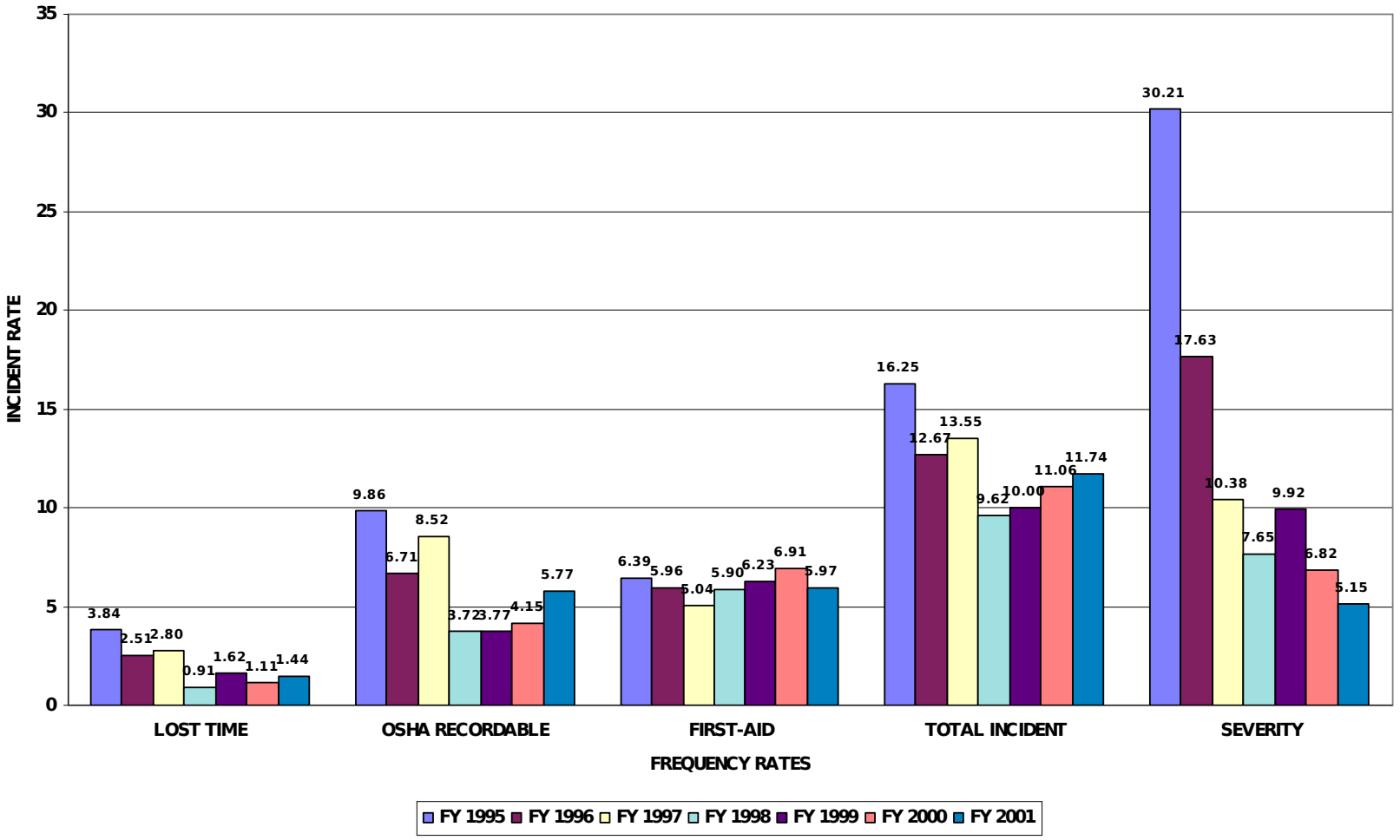
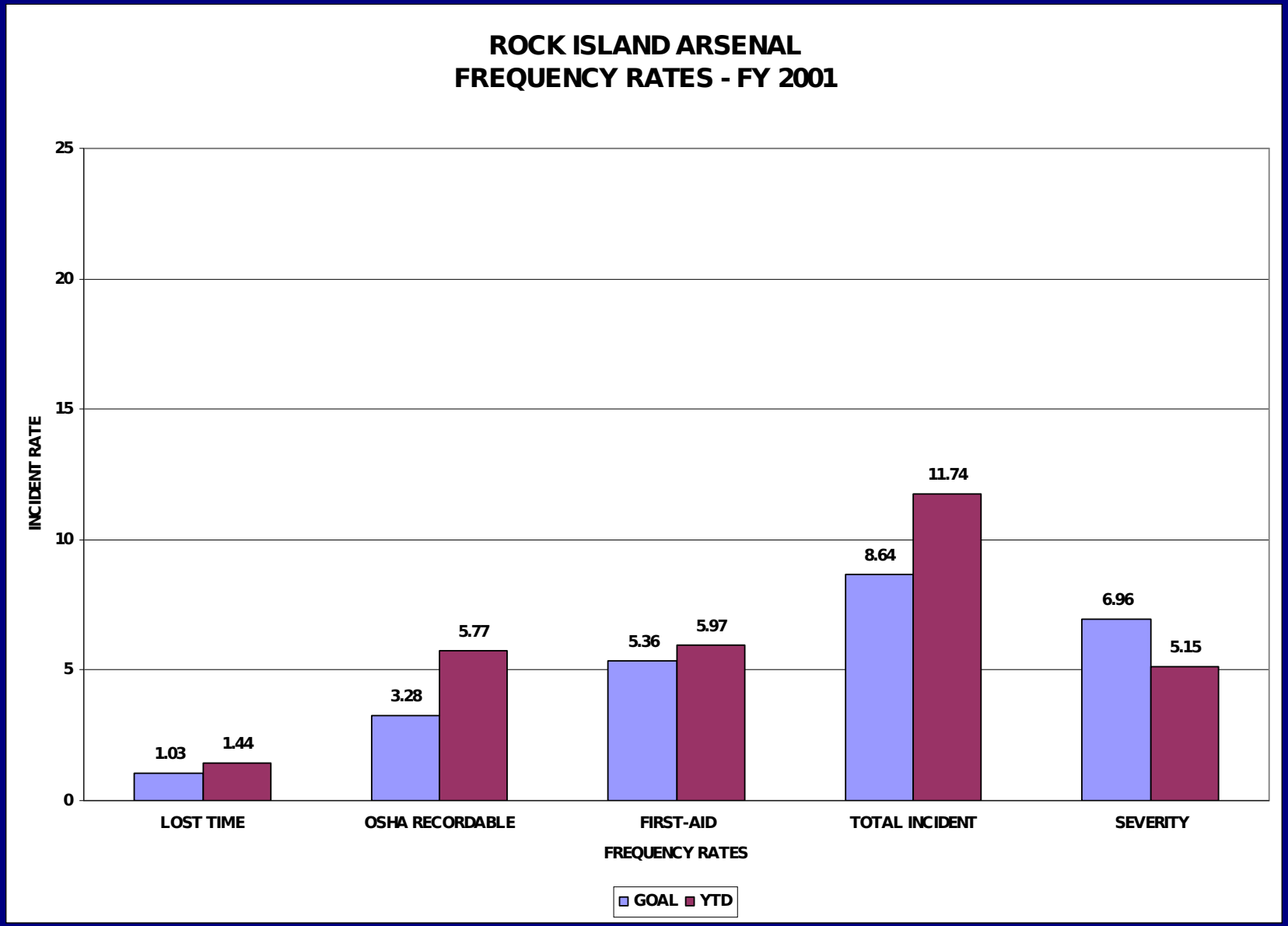
RIA Cases and Frequency Rates YTD MAR FY 2001

CASES	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
LOST TIME	72	43	45	13	21	12	7
OSHA RECORDABLE	185	115	137	53	49	45	28
FIRST-AID	120	102	81	84	81	75	29
TOTAL	305	217	218	137	130	120	57
LOST WORKDAYS	567	302	167	109	129	74	25
HOURS OF EXPOSURE	3,753,449	3,425,361	3,217,248	2,848,611	2,600,009	2,169,852	971,278
FREQUENCY RATES	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
LOST TIME	3.84	2.51	2.80	0.91	1.62	1.11	1.44
OSHA RECORDABLE	9.86	6.71	8.52	3.72	3.77	4.15	5.77
FIRST-AID	6.39	5.96	5.04	5.90	6.23	6.91	5.97
TOTAL INCIDENT	16.25	12.67	13.55	9.62	10.00	11.06	11.74
SEVERITY	30.21	17.63	10.38	7.65	9.92	6.82	5.15

ROCK ISLAND ARSENAL
SAFETY PERFORMANCE INDICATORS
FY 1995 - FY 2001




ROCK ISLAND ARSENAL
FREQUENCY RATES - FY 2001
INCIDENT RATE
25
20
15
10
5
0
1.03
1.44
3.28
5.77
5.36
5.97
8.64
11.74
6.96
5.15
LOST TIME
OSHA RECORDABLE
FIRST-AID
TOTAL INCIDENT
SEVERITY
FREQUENCY RATES
GOAL
YTD

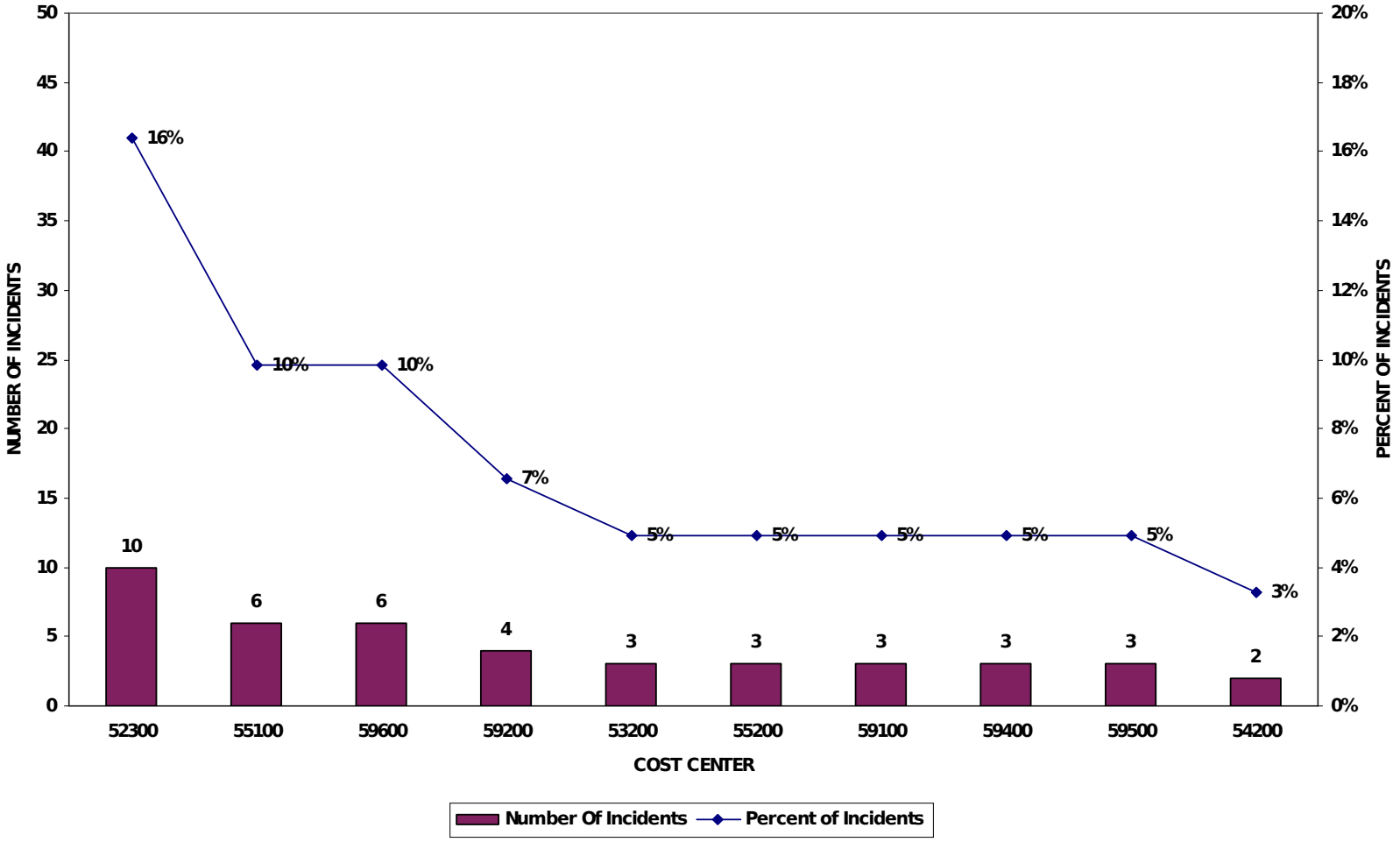
Rock Island Arsenal
+/- Goal Status

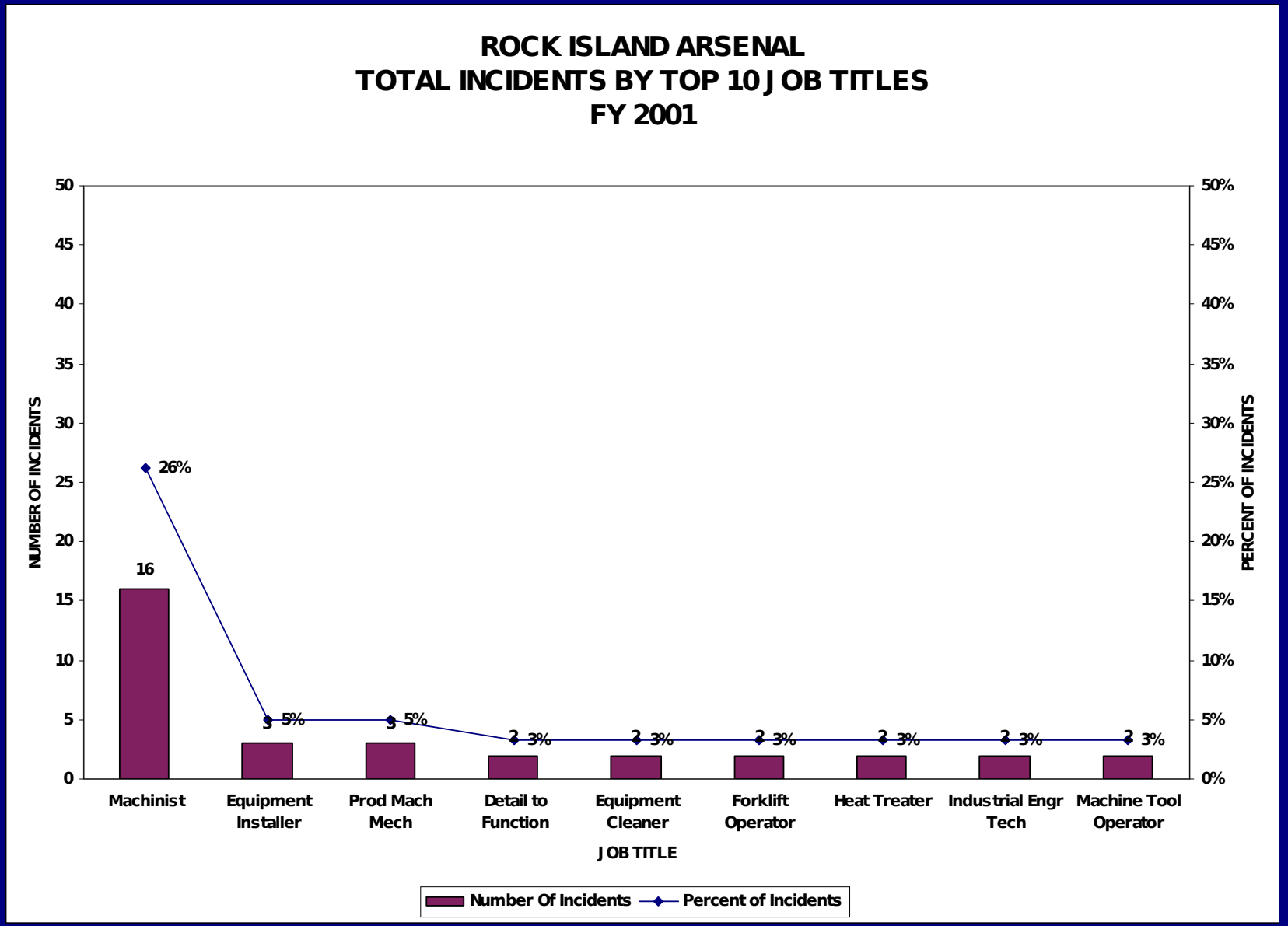
DESCRIPTION	COST CENTER	+/- GOAL LOST TIME	+/- GOAL SHA RECORDABL	+/- GOAL FIRST-AID	+/- GOAL TOTAL INCIDENT	+/- GOAL SEVERITY
RIA	01000-Z8000	40%	76%	11%	36%	-26%
SMARI-CO	01000	-100%	-100%	-100%	-100%	-100%
SMARI-HD	02000	-100%	-100%	-100%	-100%	-100%
SMARI-GC	03000	-100%	-100%	-100%	-100%	-100%
SMARI-IA	04000	-100%	-100%	-100%	-100%	-100%
SMARI-CA	05000	-100%	-100%	-100%	-100%	-100%
SMARI-EO	06000	-100%	-100%	-100%	-100%	-100%
SMARI-SF	07000	-100%	-100%	-100%	-100%	-100%
SMARI-QM	08000	-100%	-100%	-100%	-100%	-100%
SMARI-RM	11000	-100%	-100%	-100%	-100%	-100%
SMARI-CT	12000	-100%	100%	-100%	212%	-100%
SMARI-PW	13000	-100%	-100%	104%	-26%	-100%
SMARI-PC	14000-14300	-100%	-100%	280%	280%	-100%
SMARI-LE	15000	-100%	-100%	-100%	-100%	-100%
SMARI-SM	16000	-100%	-100%	-100%	-100%	-100%
SMARI-IC	50000-59600	94%	96%	14%	45%	6%
SMARI-ES	60000-64000	-100%	-100%	254%	68%	-100%
SMARI-IT	E0000-E7000	-100%	182%	-100%	-16%	-100%
SMARI-AP	L0000	-100%	-100%	-100%	-100%	-100%
SMARI-CF	Z0000-Z8000	-100%	782%	26%	194%	-100%

Current Safety Performance

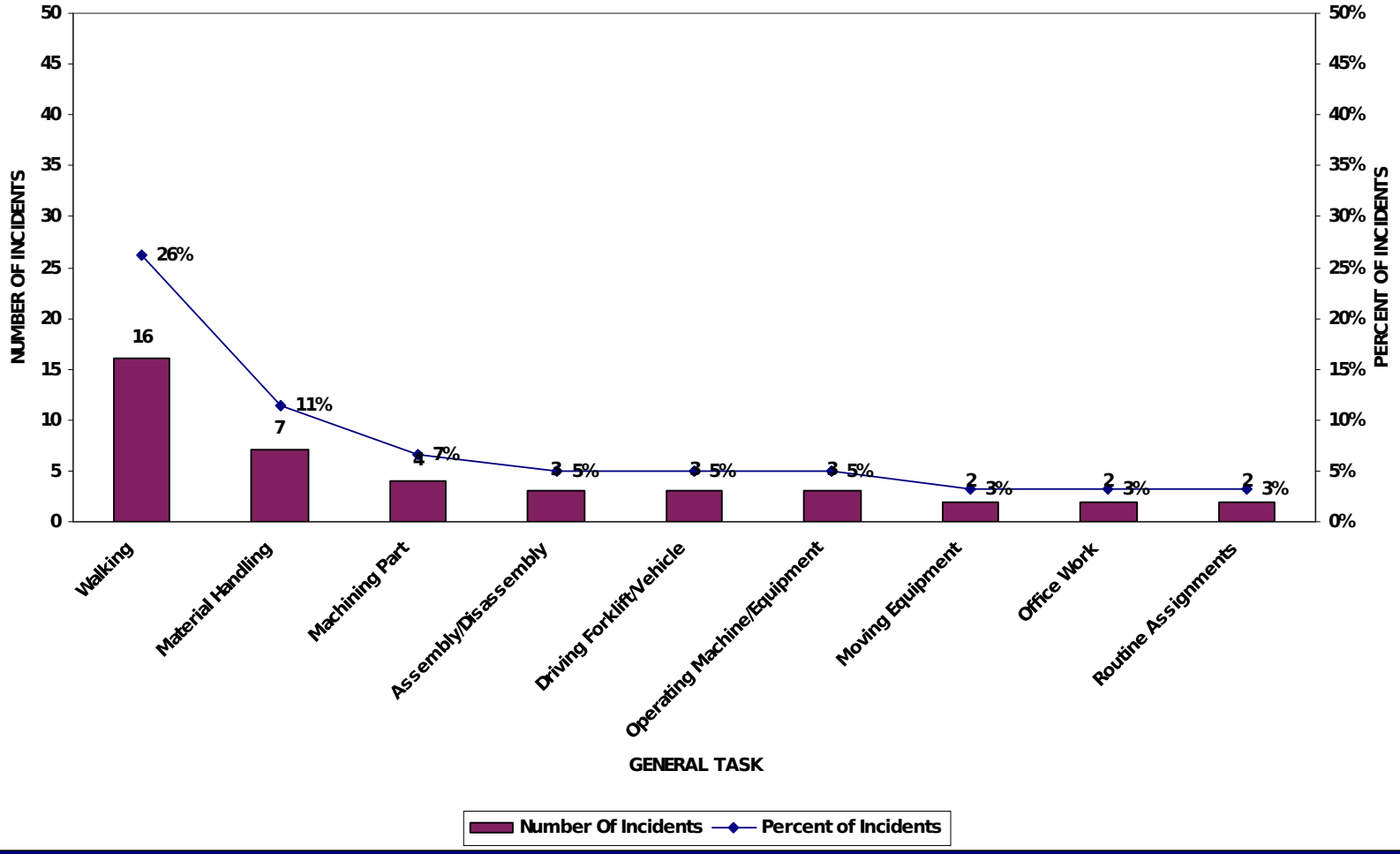
- **RIA Safety Performance Profile**
  - **Analysis by Top 10:**
    - **Cost Centers**
    - **Job Titles**
    - **General Tasks**
    - **Accident Types**
    - **Injury Types**
    - **Body Parts**
    - **Injury Sources**

ROCK ISLAND ARSENAL
TOTAL INCIDENTS BY TOP 10 COST CENTERS
FY 2001

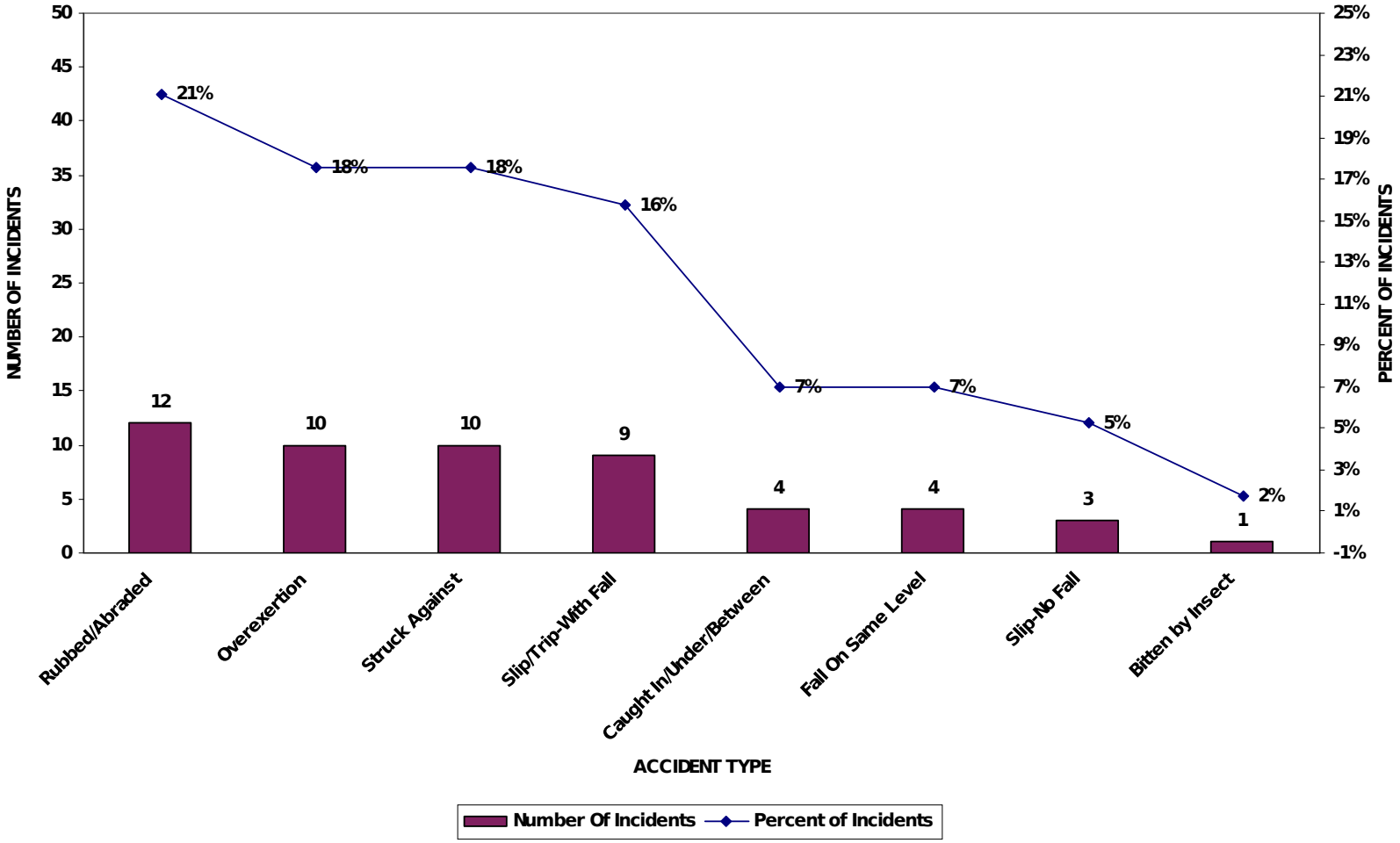


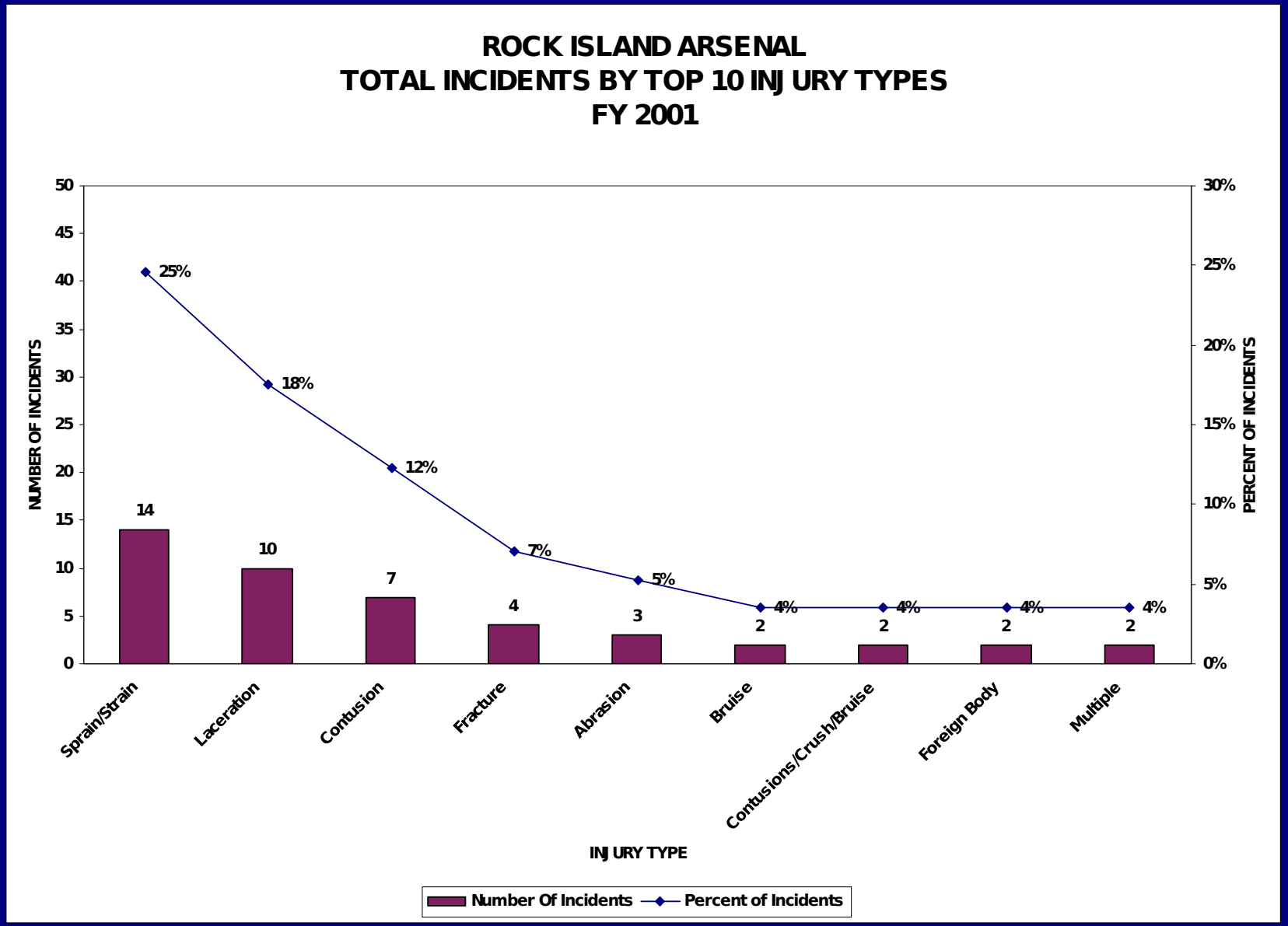

ROCK ISLAND ARSENAL
TOTAL INCIDENTS BY TOP 10 JOB TITLES
FY 2001
NUMBER OF INCIDENTS
PERCENT OF INCIDENTS
50
45
40
35
30
25
20
15
10
5
0
50%
45%
40%
35%
30%
25%
20%
15%
10%
5%
0%
16
26%
3
5%
3
5%
2
3%
2
3%
2
3%
2
3%
2
3%
2
3%
Machinist
Equipment Installer
Prod Mach Mech
Detail to Function
Equipment Cleaner
Forklift Operator
Heat Treater
Industrial Engr Tech
Machine Tool Operator
JOB TITLE
Number Of Incidents
Percent of Incidents

ROCK ISLAND ARSENAL
TOTAL INCIDENTS BY TOP 10 GENERAL TASKS
FY 2001

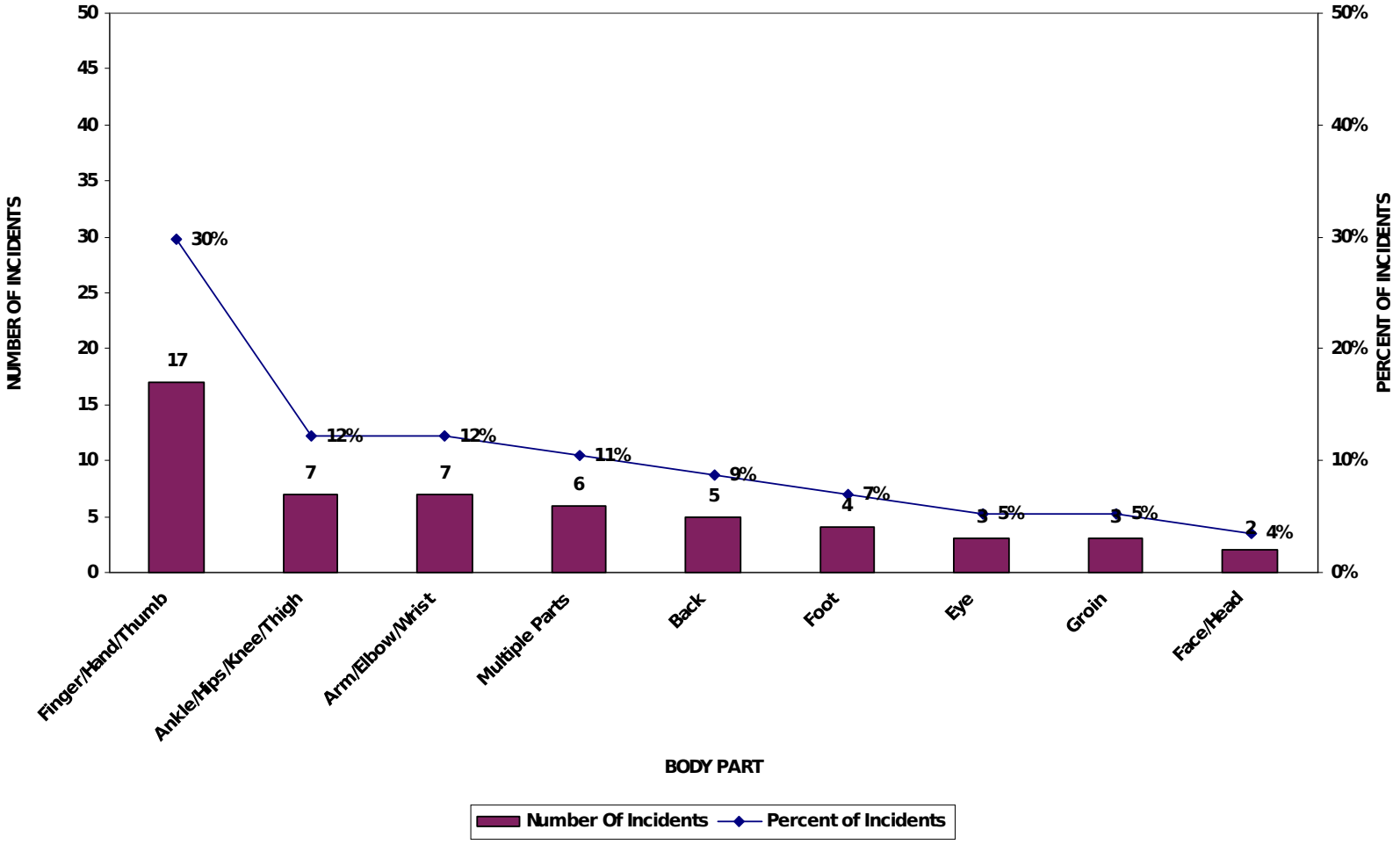


ROCK ISLAND ARSENAL
TOTAL INCIDENTS BY TOP 10 ACCIDENT TYPES
FY 2001

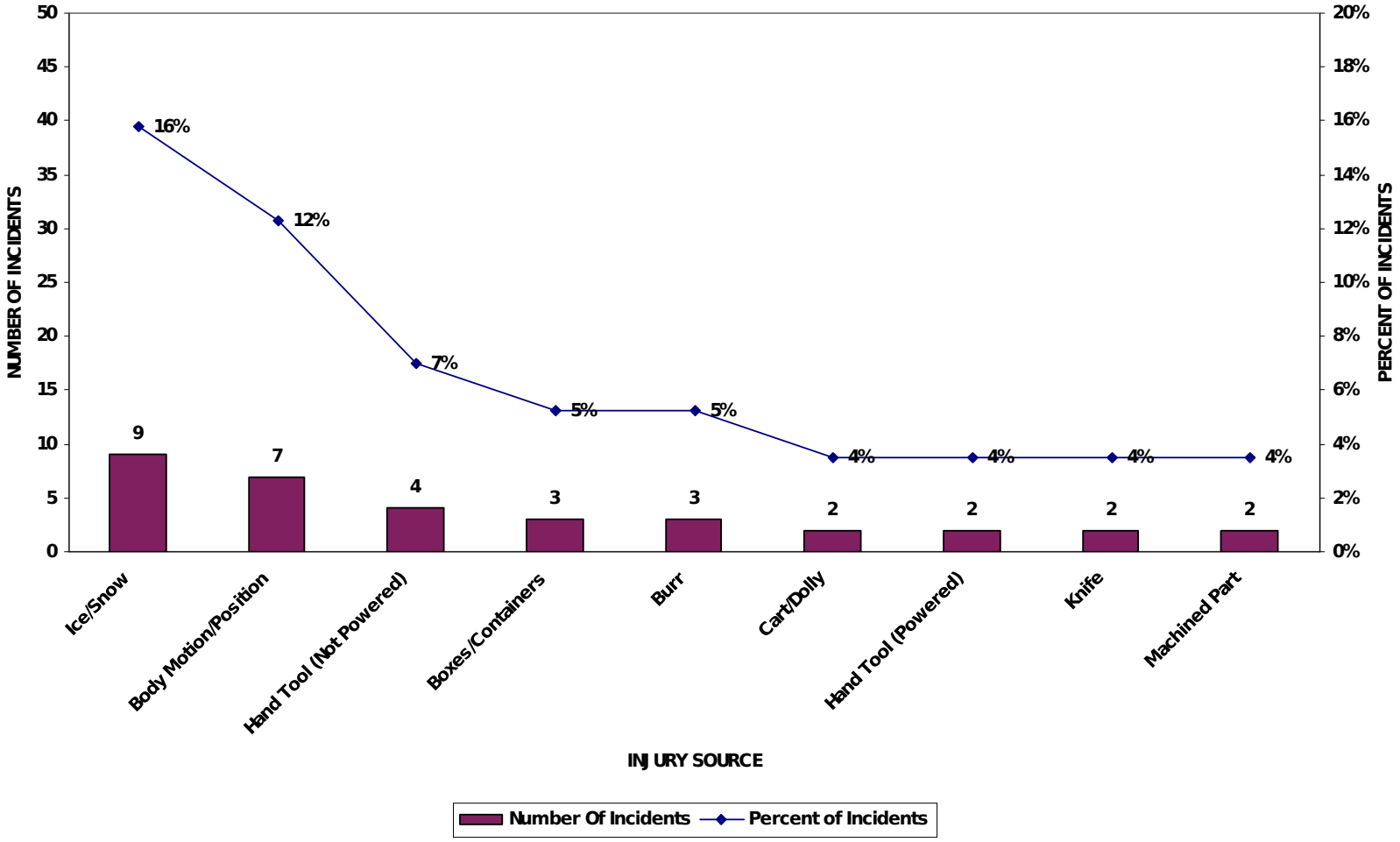



ROCK ISLAND ARSENAL
TOTAL INCIDENTS BY TOP 10 INJURY TYPES
FY 2001
NUMBER OF INCIDENTS
PERCENT OF INCIDENTS
INJURY TYPE
Number Of Incidents
Percent of Incidents
Sprain/Strain
Laceration
Contusion
Fracture
Abrasion
Bruise
Contusions/Crush/Bruise
Foreign Body
Multiple
14
10
7
4
3
2
2
2
2
25%
18%
12%
7%
5%
4%
4%
4%
4%

ROCK ISLAND ARSENAL
TOTAL INCIDENTS BY TOP 10 BODY PARTS
FY 2001

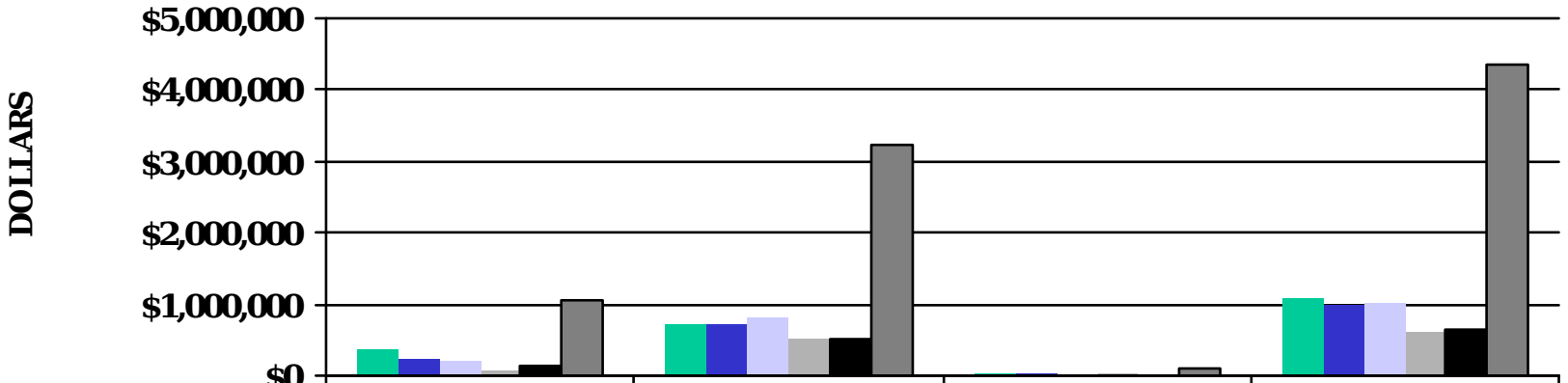


ROCK ISLAND ARSENAL
TOTAL INCIDENTS BY TOP 10 INJURY SOURCES
FY 2001



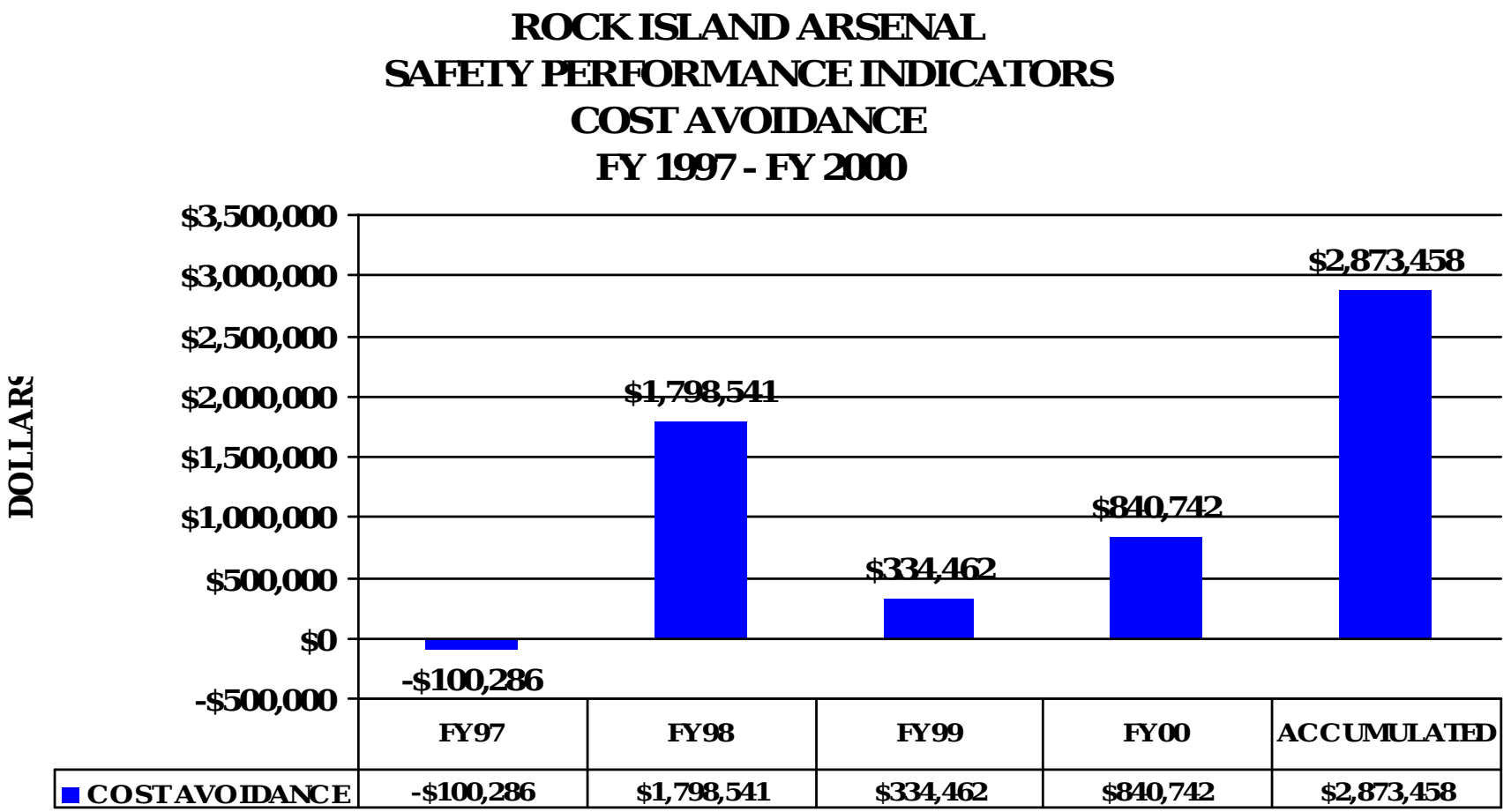
Current Safety Performance

ROCK ISLAND ARSENAL
SAFETY PERFORMANCE INDICATORS
COSTS
FY 1996 - FY 2000

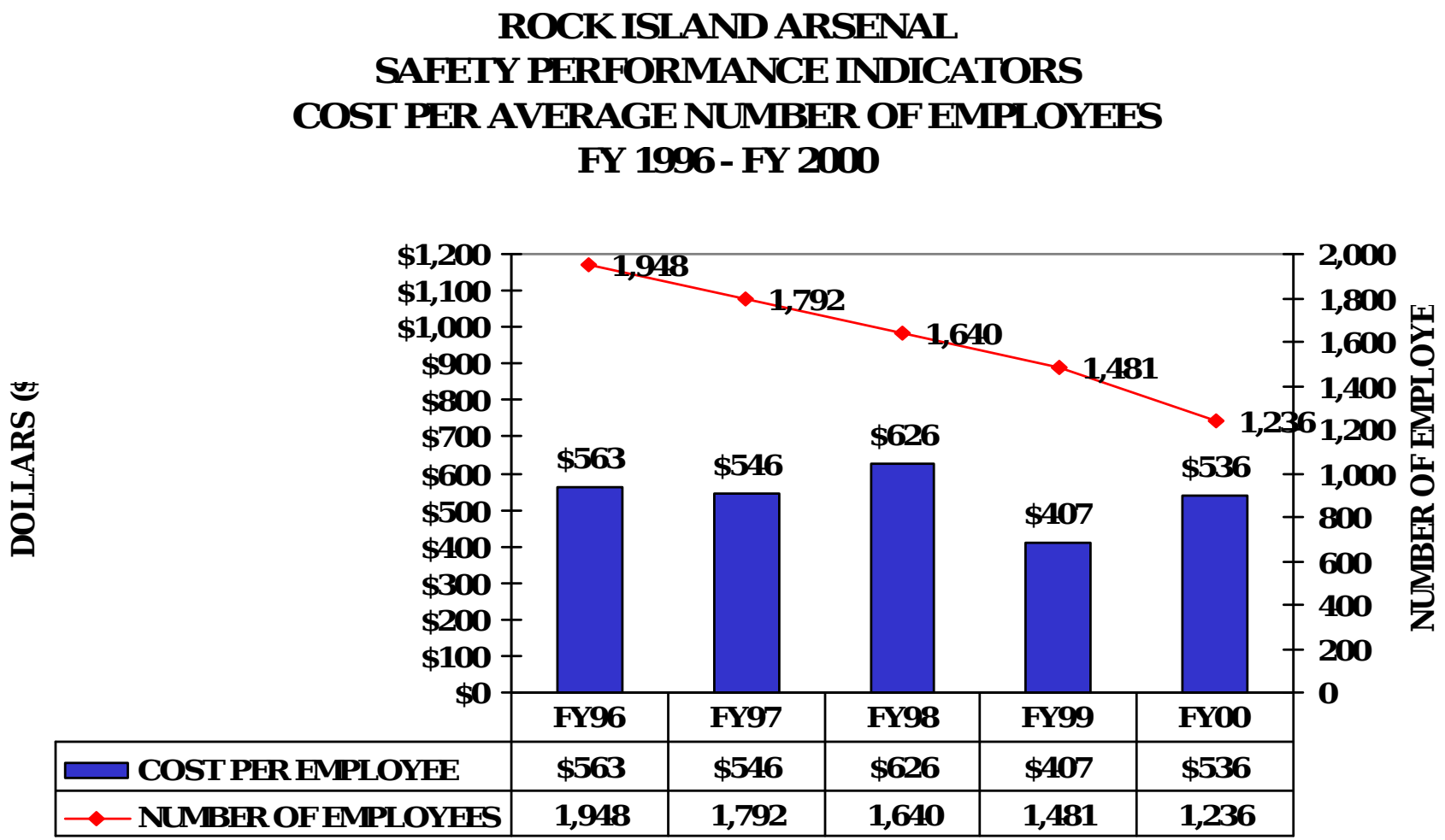


	MEDICAL	COMPENSATION	COP PAID	TOTAL
FY96	$372,365	$700,460	$24,767	$1,097,591
FY97	$225,005	$721,323	$32,069	$978,397
FY98	$217,401	$800,899	$8,995	$1,027,294
FY99	$79,867	$496,298	$27,297	$603,462
FY00	$150,208	$496,802	$15,033	$662,042
ACCUMULATED	$1,044,845	$3,215,781	$108,161	$4,368,787

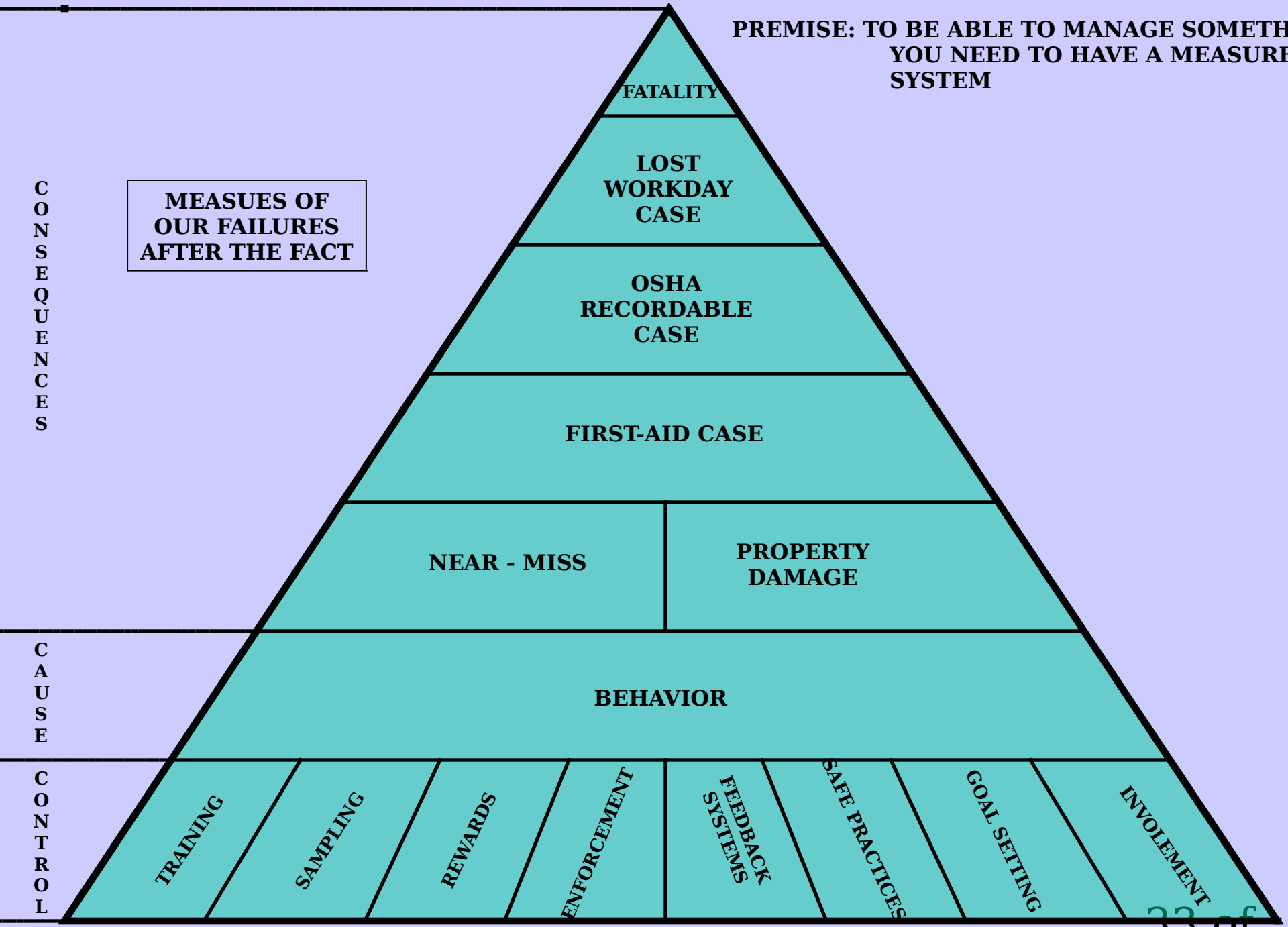
Cost Avoidance



Cost Per Employee



PREMISE: TO BE ABLE TO MANAGE SOMETH
YOU NEED TO HAVE A MEASURE
SYSTEM



Future Initiatives

- **Accident Reporting and Recording**
  - **Network Version – Safety Management Software (SMS)**
- **Computer Based Training (CBT)**
  - **Safety and Occupational Health Training**

RIA Current Safety Performance YTD APR FY 2001

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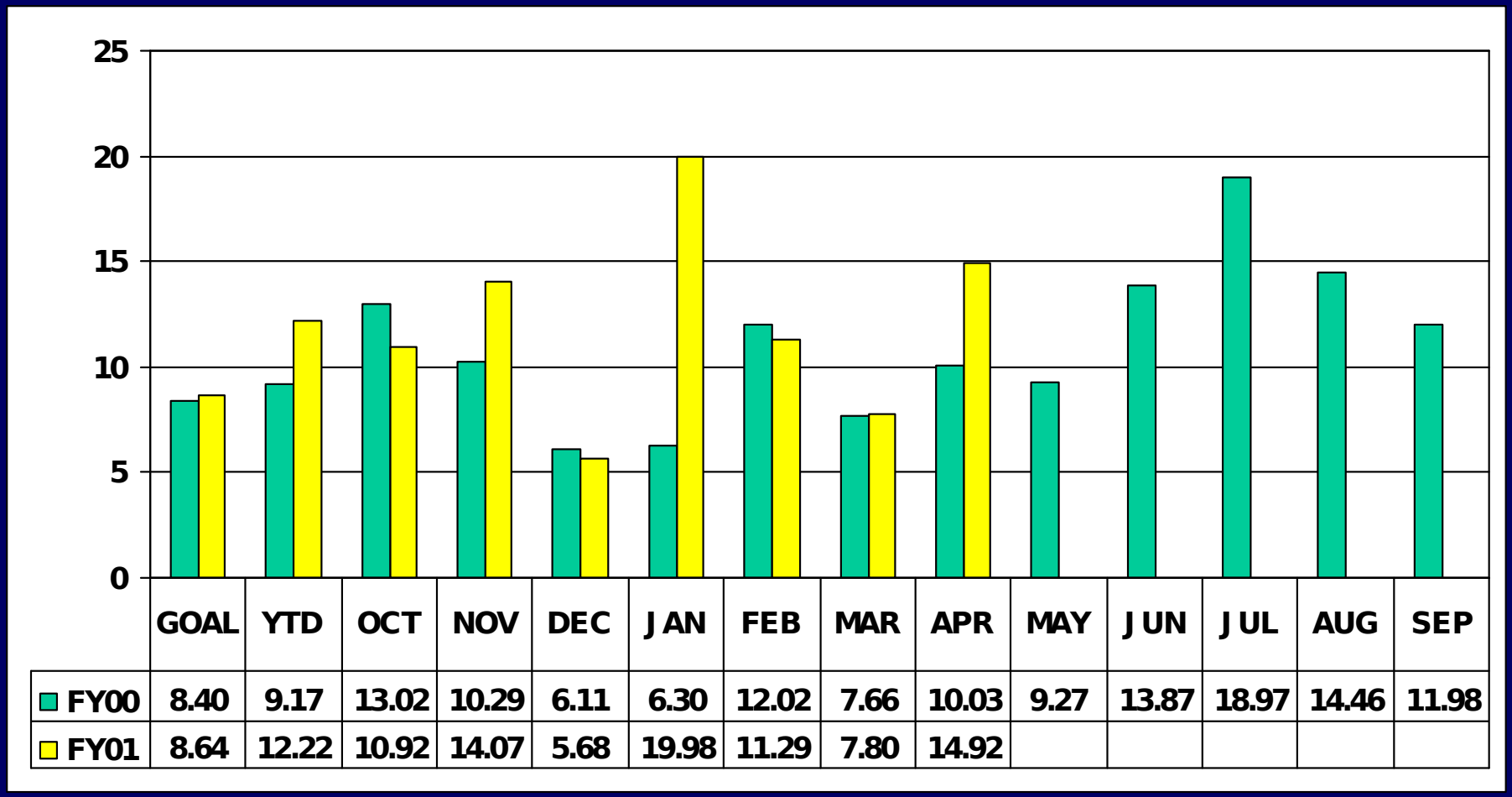
RIA YTD APR FY 2001

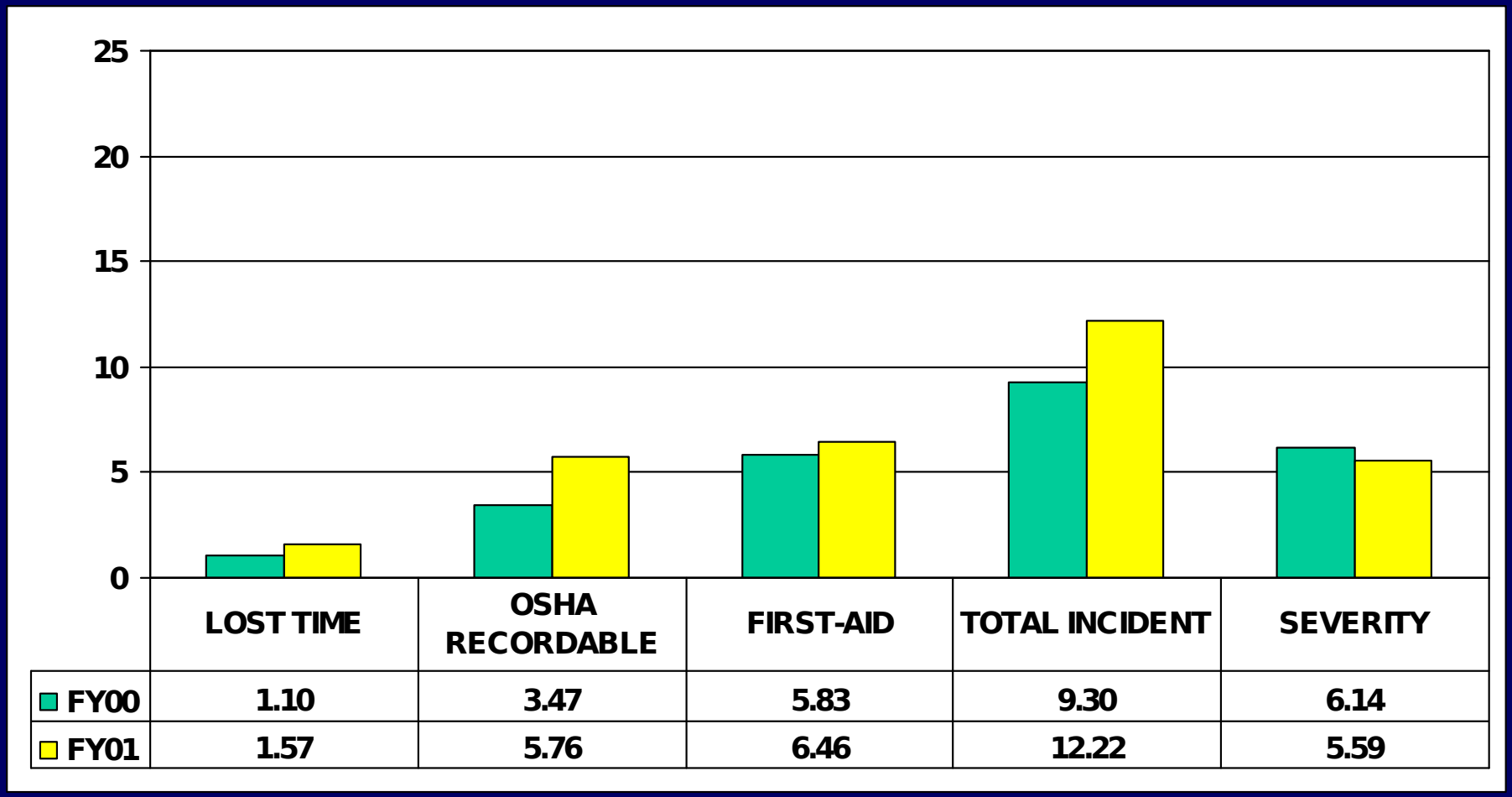
Frequency Rate	FY01 Goal	FY01 Rate	+/- Goal
Lost Time	1.03	1.57	+ 53%
OSHA Recordable	3.28	5.76	+ 76%
First-Aid	5.36	6.46	+ 21%
Total incidents	8.64	12.22	+ 41%
Severity	6.96	5.59	- 20%

RIA TOTAL INCIDENT RATE FY 2000 VS FY 2001



	GOAL	YTD	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FY00	8.40	9.17	13.02	10.29	6.11	6.30	12.02	7.66	10.03	9.27	13.87	18.97	14.46	11.98
FY01	8.64	12.22	10.92	14.07	5.68	19.98	11.29	7.80	14.92					

RIA YTD APR FY 2001
FY 2000 VS FY 2001



	LOST TIME	OSHA RECORDABLE	FIRST-AID	TOTAL INCIDENT	SEVERITY
FY00	1.10	3.47	5.83	9.30	6.14
FY01	1.57	5.76	6.46	12.22	5.59

FY 2001 SOH SURVEYS
YTD APR FY01

Category	Total
• Locations	895
• Recommendations	366
• Follow-Ups	76
• Serious Findings	5

Issues from the Council

ROCK ISLAND ARSENAL
CENTER FOR EXCELLENCE